AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended) A recording apparatus for recording, onto a recording medium, a compressed stream that is obtained by compressively eoding encoding a broadcast audio/video signal-signals, on a recording medium, said recording apparatus including:

an encoder operable to (i) receive the broadcast audio/video signal-for eompressively coding the audio/video signals, (ii) generate the compressed stream having a main unit from the received broadcast audio/video signal, (iii) divide the compressed stream into a plurality of sub-units according to a predetermined time range, (iv) form, according to an instruction, the main unit from a determined portion of the plurality of sub-units, -and (v) output-outputting a the compressed stream having the main unit formed from the determined portion of sub-units, and (vi) create sub-unit attribute information corresponding to each sub-unit which forms the main unit;

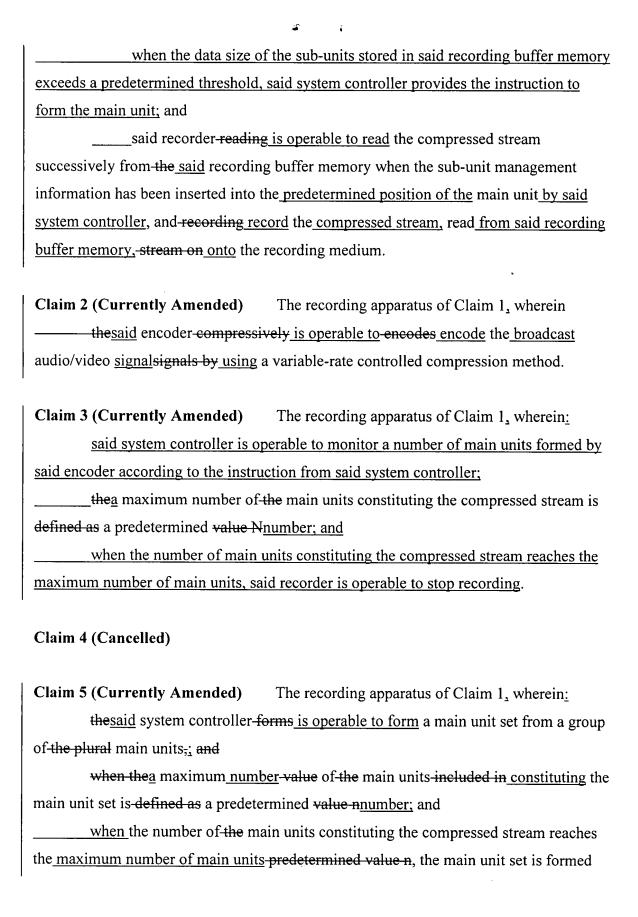
a recording buffer memory-for operable to store storing the compressed stream having the main unit formed from the determined portion of sub-units;

a recorder-for operable to record-recording the compressed stream stored in the said recording buffer memory, on onto the recording medium; and

a system controller-for operable to (i) control-controlling the respective units said encoder, said recording buffer memory, and said recorder,

said encoder dividing a compressed stream of audio/video signals within a predetermined time range to form plural sub-units and forming a main unit from a group of these sub-units to output the compressed stream as well as creating sub-unit attribute information concerning the sub-units, and

said system controller (ii) generate generating management information for each of the sub-units sub-unit of which said encoder created from sub-unit attribute information, the corresponding sub-unit attribute information, (iii) insert and inserting the management information—in_into a predetermined position—in_of the main unit, (iv) monitor a data size of the sub-units stored in said recording buffer memory, and (v) provide, based on the data size, the instruction according to which said encoder forms the main unit, wherein:



from a group comprising the <u>predetermined value n of the maximum number of main</u> units, <u>and then followed by starting a formation of another next main unit set is initiated.</u>

Claim 6 (Currently Amended) The recording apparatus of Claim 3 wherein a memory size of the recording buffer memory is defined by a recording capacity of the recording medium and the predetermined value N.

Claim 7 (Currently Amended) The recording apparatus of Claim 3, wherein

——a memory size of the said recording buffer memory is defined by a size of data to be recorded and the predetermined value Nnumber.

Claim 8 (Cancelled)

Claim 9 (Currently Amended) The recording apparatus of Claim-8 1, wherein the predetermined threshold value M is defined by a memory size of the said recording buffer memory.

Claim 10 (Currently Amended) The recording apparatus of Claim-8_1, wherein:

thea maximum number of the main units constituting the compressed stream is set at a predetermined number value N; and

the predetermined threshold value M is defined by a recording capacity of the recording medium and the maximum number of main unitspredetermined value N.

Ćlaim 11 (Currently Amended) The recording apparatus of Claim-8_1, wherein: thea maximum number of the main units constituting the compressed stream is set at a predetermined number-value N; and

the predetermined threshold value M is defined by a size of data to be recorded and the maximum number of main units predetermined value N.

Claim 12 (Currently Amended) The recording apparatus of Claim 1, wherein

the said encoder is operable to utilize detects at least one information among from information concerning a data size of the each sub-unit which forms the main unit, information concerning a position of the each sub-unit which forms the main unit, and information concerning a playback time of the each sub-unit which forms the main unit, as the sub-unit attribute information.

Claim 13 (Currently Amended) The recording apparatus of Claim 1, wherein Thewhen said system controller inserts the sub-unit management information into the main unit the sub-unit management information-so as to be is placed at a head of each sub-unit comprising the main unit. Claim 14 (Currently Amended) The recording apparatus of Claim 1, further comprising: -a unit-for issuing operable to issue a recording stop command-or and a recording start command, wherein: _said system controller posting is operable to post a coding stop instruction to-the said encoder when the recording stop command is issued by said unit; and _said encoder-finishing is operable to finish forming the main unit when unit upon receiving the coding stop instruction from said system controller, taking and a the sub-unit-that is being formed at a time when the coding stop instruction is received by said encoder-as is a last sub-unit to be encoded by said encoder. Claim 15 (Currently Amended) The recording apparatus of Claim 1, further comprising: -a decision unit-for deciding operable to determine-the a type of the recording medium, wherein: and said system controller-selecting is operable to either inserting insert the sub-unit management information in into a predetermined position in the main unit on the basis of a result of the decision by the decision unit, or controlling and control the said recorder for recording to record the sub-unit management information in onto a sub-unit management area on the recording medium; and

said system controller is operable to either insert the sub-unit management information or control said recorder to record the sub-unit management information according to the determination of said decision unit. Claim 16 (Currently Amended) A recording method for recording, onto a recording medium, by which a compressed stream that is obtained by compressively eoding encoding a broadcast audio/video signal signals is recorded on a recording medium, said recording method comprising: receiving the broadcast audio/video signal; encoding the broadcast audio/video signal; a coding step of compressively coding the audio/video signals. generating the compressed stream, which includes a main unit, from the received broadcast audio/video signal; dividing the compressed stream into a plurality of sub-units according to a predetermined time range: forming, according to an instruction, the main unit of the compressed stream from a determined portion of the plurality of sub-units-thereby generating a compressed stream; creating sub-unit attribute information corresponding to each sub-unit which forms the main unit; a storage step of storing the compressed stream, having the main unit formed from the determined portion of sub-units, in a buffer memory; a recording step of recording the compressed stream stored in the buffer memory in the storage step on onto the recording medium; and a system control step of controlling said receiving, said generating, said creating, said storing, and said recording the respective steps, wherein: in the coding step, a compressed stream of audio/video signals within a predetermined time-range is divided to form plural sub-units, and a main unit is formed from a group of the sub-units as well as sub-unit attribute information concerning the sub-unit is created,

_____in the system control stepsaid controlling includes (i) generating,
management information for of each of the sub-units of which the sub-unit attribute
information is created by said creating of the sub-unit attribute information is generated
from the corresponding sub-unit attribute information, and, (ii) inserting each of the
management information is inserted in into a predetermined position in of the main unit,
(iii) monitoring a data size of the sub-units stored in the buffer memory, and (iv)
providing, based on the data size, the instruction to said forming of the main unit; and
______in thewhen the data size of the sub-units stored in the buffer memory
exceeds a predetermined threshold, said controlling further includes providing the
instruction to form the main unit; and
_______said recording of the compressed stream step, includes reading the
compressed stream successively from the buffer memory when the sub-unit management
information has been inserted into the main unit, and recording the compressed stream in,
read from the buffer memory, which the sub-unit management has been inserted is
successively recorded on onto the recording medium.